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Product no AS05 067

POR | Protochlorophilide oxidoreductase

Product information

Immunogen	Native wheat POR protein isolated from a gel piece
Host	Rabbit
Clonality	Polyclonal
Purity	Serum
Format	Lyophilized
Quantity	50 µl
Reconstitution	For reconstitution add 50 µl of sterile water
Storage	Store lyophilized/reconstituted at -20°C; once reconstituted make aliquots to avoid repeated freeze-thaw cycles. Please remember to spin the tubes briefly prior to opening them to avoid any losses that might occur from material adhering to the cap or sides of the tube.

Application information

Recommended dilution	1: 500 (IL), 1 : 2000 (WB)
Expected | apparent MW	36-37 kDa (*Arabidopsis thaliana*)
Confirmed reactivity	*Arabidopsis thaliana, Cyanobacteria, Horderum vulgare, Nicotiana tabacum, Oryza sativa, Phalenopsis Sogo Yukidian cultivar V3, Pinus yunnanensis, Pisum sativum, Triticum aestivum*
Not reactive in	No confirmed exceptions from predicted reactivity are currently known
Additional information	POR is present in high amounts in chloroplasts not exposed to light (etioplasts),
Selected references	Lee et al (2021). Chaperone-like protein DAY plays critical roles in photomorphogenesis. Nat Commun. 2021 Jul 7;12(1):4194. doi: 10.1038/s41467-021-24446-5. PMID: 34234144; PMCID: PMC8263706. Floris & Kühlbrandt. (2021). Molecular landscape of etioplast inner membranes in higher plants. Nat Plants. 2021 Apr;7(4):514-523. doi: 10.1038/s41477-021-00896-z. Epub 2021 Apr 19. PMID: 33875833. Dogra et al. (2019). Oxidative post-translational modification of EXECUTER1 is required for singlet oxygen sensing in plastids. Nat Commun. 2019 Jun 27;10(1):2834. doi: 10.1038/s41467-019-10760-6. Zhang et al. (2018). Nitric oxide regulates chlorophyllide biosynthesis and singlet oxygen generation differently between Arabidopsis and barley. Nitric Oxide. 2018 Mar 3;76:6-15. doi: 10.1016/j.niox.2018.03.001. Han et al. (2015). A nuclear-encoded chloroplast-targeted S1 RNA-binding domain protein affects chloroplast rRNA processing and is crucial for the normal growth of Arabidopsis thaliana. Plant J. 2015 Jul;83(2):277-89. doi: 10.1111/tpj.12889. Epub 2015 Jun 15.